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<u>L7</u>	16 and kit\$1	11	<u>L7</u>
<u>L6</u>	L5 and (termin\$2 or end\$1)	14	<u>L6</u>
<u>L5</u>	L4 and (methyl nucleotides or fluoro nucleotides or amino nucleotides or arabinose nucleotides)	14	<u>L5</u>
<u>L4</u>	11 and (amplif\$7 or PCR)	1481	<u>L4</u>
<u>L3</u>	L2 and (termin\$2 or end\$1)	9	<u>L3</u>
<u>L2</u>	L1 and (O-methyl nucleotide\$1 or fluoro nucleotide\$1 or amino nucleotide\$1 or arabinose nucleotide\$1)	9	<u>L2</u>
<u>L1</u>	modif\$4 near5 primer\$1	2656	<u>L1</u>

END OF SEARCH HISTORY

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-
- ☐ 1. [6582923](#). 22 Mar 02; 24 Jun 03. Method for analyzing polynucleotides. Stanton, Jr.; Vincent P., et al. 435/6; 435/91.1 536/23.1 536/25.3. C12Q001/68 C12P019/34 C07H021/02 C07H021/04.
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- ☐ 2. [6566059](#). 10 Sep 99; 20 May 03. Method for analyzing polynucleotides. Stanton, Jr.; Vincent P., et al. 435/6; 435/91.1 435/91.2 536/22.1 536/23.1 536/24.3 536/25.3. C12Q001/68 C12P019/34 C07H021/00 C07H021/02 C07H021/04.
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- ☐ 3. [6503710](#). 27 May 99; 07 Jan 03. Mutation analysis using mass spectrometry. Gut; Ivo Glynne, et al. 435/6; 435/91.1 436/173 436/175 536/25.3 536/25.4. C07H021/04 C12Q001/68.
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- ☐ 4. [6500650](#). 05 Sep 00; 31 Dec 02. Method for identifying polymorphisms. Stanton, Jr.; Vince P., et al. 435/91.1; 435/6 435/91.2 536/22.1 536/23.1 536/24.3 536/24.33 536/25.3 536/25.32. C12Q001/68 C12P019/34 C07H019/00 C07H021/00 C07H021/02.
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- ☐ 5. [6475736](#). 25 Oct 00; 05 Nov 02. Methods for genetic analysis of DNA using biased amplification of polymorphic sites. Stanton, Jr.; Vincent P.. 435/6; 435/91.2 536/22.1 536/24.33. C12Q001/68 C12P019/34 C07H021/04 C07H019/00.
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- ☐ 6. [6458945](#). 09 Nov 00; 01 Oct 02. Method for analyzing polynucleotides. Stanton, Jr.; Vincent P., et al. 536/25.3; 435/6 435/91.1 435/91.2 536/23.1 536/25.32. C12Q001/68 C12P019/34 C07H019/00 C07H021/00 C07H012/02.
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- ☐ 7. [6440705](#). 10 Sep 99; 27 Aug 02. Method for analyzing polynucleotides. Stanton, Jr.; Vincent P., et al. 435/91.2; 435/183 435/6 435/91.1 536/22.1 536/23.1 536/24.3 536/24.31 536/24.32 536/24.33. C12P019/34 C12Q001/68 C07H021/02 C07H021/04.
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- ☐ 8. [6339066](#). 31 Mar 97; 15 Jan 02. Antisense oligonucleotides which have phosphorothioate linkages of high chiral purity and which modulate .beta.I, .beta.II, .gamma., .delta., .EPSILON., .zeta. and .eta. isoforms of human protein kinase C. Bennett; C. Frank, et al. 514/44; 435/366 435/375 435/6 435/91.1 536/23.1 536/24.31 536/24.5. C07H021/04 A61K048/00 C12Q001/68.
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- ☐ 9. [6130038](#). 15 Jul 97; 10 Oct 00. Method for amplifying target nucleic acids using modified primers. Becker; Michael M., et al. 435/6; 536/23.1 536/24.3 536/24.31 536/24.32 536/24.33 536/25.32. C12Q001/68 C07H021/04.
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- ☐ 10. [5939292](#). 05 Aug 97; 17 Aug 99. Thermostable-DNA polymerases having reduced discrimination against ribo-NTPs. Gelfand; David Harrow, et al. 435/91.2; 435/194 536/23.2. C12P019/34 C12N009/12 C07H021/04.
-

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10083233

=> s' fluoro-nucleotide# or amino-nucleotide# or arabinose nucleotide#
 --\L11 91 FLUORO-NUCLEOTIDE# OR AMINO-NUCLEOTIDE# OR ARABINOSE NUCLEOTIDE#

=> s l11 and modif### and primer#
 L12 1 L11 AND MODIF### AND PRIMER#

=> d l12 bib ab kwic

L12 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 2002:331867 CAPLUS
 DN 136:351360
 TI Nucleic acid amplification using **primers** comprising
modified nucleotides
 IN Laird, Walter J.; Niemiec, John T.
 PA Roche Diagnostics G.m.b.H., Germany; F. Hoffmann-La Roche A.-G.
 SO Eur. Pat. Appl., 22 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1201768	A2	20020502	EP 2001-125022	20011020
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2002291490	A2	20021008	JP 2001-326463	20011024
	US 2003044817	A1	20030306	US 2001-83233	20011024
PRAI	US 2000-243182P	P	20001025		

AB The present invention provides **modified primers** for use in the amplification of a nucleic acid sequence. Amplifications carried out using the **modified primers** result in less template-independent non-specific product (**primer dimer**) compared to amplifications carried out using unmodified **primers**. The said **modified primers** comprise 2'-O-Me nucleotides, 2'-fluoro nucleotides, 2'-amino nucleotides or arabinose nucleotides with the three 3'-terminal nucleotide positions.

TI Nucleic acid amplification using **primers** comprising **modified** nucleotides

AB The present invention provides **modified primers** for use in the amplification of a nucleic acid sequence. Amplifications carried out using the **modified primers** result in less template-independent non-specific product (**primer dimer**) compared to amplifications carried out using unmodified **primers**. The said **modified primers** comprise 2'-O-Me nucleotides, 2'-fluoro nucleotides, 2'-amino nucleotides or arabinose nucleotides with the three 3'-terminal nucleotide positions.

ST nucleic acid amplification **primer modified** nucleotide

IT Nucleotides, biological studies
 RL: BSU (Biological study, unclassified); BIOL (Biological study) (2'-O-Me; nucleic acid amplification using **primers** comprising **modified** nucleotides)

IT Nucleotides, biological studies
 RL: BSU (Biological study, unclassified); BIOL (Biological study) (2'-deoxy-2'-amino; nucleic acid amplification using **primers** comprising **modified** nucleotides)

IT Nucleotides, biological studies
 RL: BSU (Biological study, unclassified); BIOL (Biological study) (2'-deoxy-2'-fluoro; nucleic acid amplification using **primers** comprising **modified** nucleotides)

IT Nucleotides, biological studies
 RL: BSU (Biological study, unclassified); BIOL (Biological study) (arabinose-contg.; nucleic acid amplification using **primers**)

comprising **modified** nucleotides)

IT Nucleic acid amplification (method)
 PCR (polymerase chain reaction)
 (nucleic acid amplification using **primers** comprising
modified nucleotides)

IT **Primers** (nucleic acid)
 RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
 (nucleic acid amplification using **primers** comprising
modified nucleotides)

IT 147-81-9, Arabinose
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (contg. nucleotides; nucleic acid amplification using **primers**
 comprising **modified** nucleotides)

IT 420281-56-7 420281-57-8 420281-58-9 420281-59-0
 RL: PRP (Properties)
 (unclaimed nucleotide sequence; nucleic acid amplification using
primers comprising **modified** nucleotides)

=>

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 14:57:29 ON 29 NOV 2003

=> file medline caplus biosis

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

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=> s modif#### (10a) primer# (10a) (O-methyl nucleotide# or fluoro-nucleotide# or amino-nucleotide# or arabinose nucleotide#)

193397 MODIF####
32522 PRIMER#
155455 "O"
179333 "METHYL"
205557 NUCLEOTIDE#
10 O-METHYL NUCLEOTIDE#
("O" (W) "METHYL" (W) NUCLEOTIDE#)
12255 "FLUORO"
205557 NUCLEOTIDE#
2 FLUORO-NUCLEOTIDE#
("FLUORO" (W) NUCLEOTIDE#)
360356 "AMINO"
205557 NUCLEOTIDE#
3 AMINO-NUCLEOTIDE#
("AMINO" (W) NUCLEOTIDE#)
2435 "ARABINOSE"
205557 NUCLEOTIDE#
1 ARABINOSE-NUCLEOTIDE#
("ARABINOSE" (W) NUCLEOTIDE#)

L1 0 MODIF#### (10A) PRIMER# (10A) (O-METHYL NUCLEOTIDE# OR FLUORO-NUCLEOTIDE# OR AMINO-NUCLEOTIDE# OR ARABINOSE NUCLEOTIDE#)

=> s modif#### (10a) primer#

193397 MODIF####
32522 PRIMER#

L2 330 MODIF#### (10A) PRIMER#

=> s l2 and ((O-METHYL NUCLEOTIDE# OR FLUORO-NUCLEOTIDE# OR AMINO-NUCLEOTIDE# OR ARABINOSE NUCLEOTIDE#)

UNMATCHED LEFT PARENTHESIS 'AND ((O-METHYL'

The number of right parentheses in a query must be equal to the number of left parentheses.

=> s l2 and (O-METHYL NUCLEOTIDE# OR FLUORO-NUCLEOTIDE# OR AMINO-NUCLEOTIDE# OR ARABINOSE NUCLEOTIDE#)

155455 "O"
179333 "METHYL"
205557 NUCLEOTIDE#
10 O-METHYL NUCLEOTIDE#
("O" (W) "METHYL" (W) NUCLEOTIDE#)
12255 "FLUORO"
205557 NUCLEOTIDE#
2 FLUORO-NUCLEOTIDE#
("FLUORO" (W) NUCLEOTIDE#)
360356 "AMINO"
205557 NUCLEOTIDE#
3 AMINO-NUCLEOTIDE#
("AMINO" (W) NUCLEOTIDE#)
2435 "ARABINOSE"
205557 NUCLEOTIDE#
1 ARABINOSE NUCLEOTIDE#
("ARABINOSE" (W) NUCLEOTIDE#)

L3 0 L2 AND (O-METHYL NUCLEOTIDE# OR FLUORO-NUCLEOTIDE# OR AMINO-NUCLEOTIDE# OR ARABINOSE NUCLEOTIDE#)

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=> s modif#### (10a) primer#
L4 2789 MODIF#### (10A) PRIMER#

=> s l4 and (O-methyl-nucleotide# or fluoro-nucleotide# or amino-nucleotide# or arabinose nucleotide#)

L5 1 L4 AND (O-METHYL-NUCLEOTIDE# OR FLUORO-NUCLEOTIDE# OR AMINO-NUCLEOTIDE# OR ARABINOSE NUCLEOTIDE#)

=> s l5 and (end or termin###)
L6 1 L5 AND (END OR TERMIN###)

=> d l6 bib ab kwic

L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2002:331867 CAPLUS
DN 136:351360
TI Nucleic acid amplification using **primers** comprising
modified nucleotides
IN Laird, Walter J.; Niemiec, John T.
PA Roche Diagnostics G.m.b.H., Germany; F. Hoffmann-La Roche A.-G.

SO Eur. Pat. Appl., 22 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1201768	A2	20020502	EP 2001-125022	20011020
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2002291490	A2	20021008	JP 2001-326463	20011024
	US 2003044817	A1	20030306	US 2001-83233	20011024
PRAI	US 2000-243182P	P	20001025		
AB	The present invention provides modified primers for use in the amplification of a nucleic acid sequence. Amplifications carried out using the modified primers result in less template-independent non-specific product (primer dimer) compared to amplifications carried out using unmodified primers. The said modified primers comprise 2'-O-Me nucleotides, 2'-fluoro nucleotides, 2'-amino nucleotides or arabinose nucleotides with the three 3'-terminal nucleotide positions.				
TI	Nucleic acid amplification using primers comprising modified nucleotides				
AB	The present invention provides modified primers for use in the amplification of a nucleic acid sequence. Amplifications carried out using the modified primers result in less template-independent non-specific product (primer dimer) compared to amplifications carried out using unmodified primers. The said modified primers comprise 2'-O-Me nucleotides, 2'-fluoro nucleotides, 2'-amino nucleotides or arabinose nucleotides with the three 3'-terminal nucleotide positions.				
ST	nucleic acid amplification primer modified nucleotide				
IT	Nucleotides, biological studies				
	RL: BSU (Biological study, unclassified); BIOL (Biological study) (2'-O-Me; nucleic acid amplification using primers comprising modified nucleotides)				
IT	Nucleotides, biological studies				
	RL: BSU (Biological study, unclassified); BIOL (Biological study) (2'-deoxy-2'-amino; nucleic acid amplification using primers comprising modified nucleotides)				
IT	Nucleotides, biological studies				
	RL: BSU (Biological study, unclassified); BIOL (Biological study) (2'-deoxy-2'-fluoro; nucleic acid amplification using primers comprising modified nucleotides)				
IT	Nucleotides, biological studies				
	RL: BSU (Biological study, unclassified); BIOL (Biological study) (arabinose-contg.; nucleic acid amplification using primers comprising modified nucleotides)				
IT	Nucleic acid amplification (method)				
	PCR (polymerase chain reaction) (nucleic acid amplification using primers comprising modified nucleotides)				
IT	Primers (nucleic acid)				
	RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses) (nucleic acid amplification using primers comprising modified nucleotides)				
IT	147-81-9, Arabinose				
	RL: BSU (Biological study, unclassified); BIOL (Biological study) (contg. nucleotides; nucleic acid amplification using primers comprising modified nucleotides)				
IT	420281-56-7	420281-57-8	420281-58-9	420281-59-0	
	RL: PRP (Properties)				

(unclaimed nucleotide sequence; nucleic acid amplification using
primers comprising modified nucleotides)

=>
